

INTERNATIONAL SEARCH REPORT

International Application No
PC 03/11425

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L37/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16L E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 1 237 982 A (ROTO LOCK COUPLINGS INC) 5 August 1960 (1960-08-05) figures	1
A	EP 0 153 773 A (BORMIOLI GIORGIO) 4 September 1985 (1985-09-04) cited in the application figures	1
A	EP 0 541 142 A (BORMIOLI GIORGIO) 12 May 1993 (1993-05-12) figures	1
A	GB 854 763 A (THOMPSON NUCLEAR ENERGY CO LTD) 23 November 1960 (1960-11-23) figures	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

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29/01/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 507 313 A (LEDEVEHAT EUGENE) 16 April 1996 (1996-04-16) figures -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC 03/11425

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 1237982	A	05-08-1960	NONE	
EP 0153773	A	04-09-1985	IT 1173342 B BR 8500774 A EP 0153773 A2 JP 60211190 A	24-06-1987 08-10-1985 04-09-1985 23-10-1985
EP 0541142	A	12-05-1993	IT 1251771 B DE 69208322 D1 DE 69208322 T2 EP 0541142 A1	24-05-1995 28-03-1996 12-09-1996 12-05-1993
GB 854763	A	23-11-1960	NONE	
US 5507313	A	16-04-1996	FR 2714709 A1 AT 204064 T AU 680103 B2 AU 1519095 A CN 1143997 A , B DE 69427925 D1 DE 69427925 T2 DK 748429 T3 EP 0748429 A1 ES 2161280 T3 GR 3037022 T3 JP 2772585 B2 JP 9508457 T NO 962824 A PT 748429 T RU 2121102 C1 WO 9518937 A1	07-07-1995 15-08-2001 17-07-1997 01-08-1995 26-02-1997 13-09-2001 11-04-2002 08-10-2001 18-12-1996 01-12-2001 31-01-2002 02-07-1998 26-08-1997 04-09-1996 30-11-2001 27-10-1998 13-07-1995